

8660-0018

Express Mail No. EL592237826US

CLAIMS

We claim:

1. A candle composition, the composition comprising: greater than 90 percent by weight of a plant derived base component comprising 25 percent by weight stearic acid; 68.75 percent by weight plant oil; and 6.25 percent by weight of a plant derived crystal modifier.
2. The candle composition of claim 1, wherein the crystal modifier is a surfactant.
3. The candle composition of claim 1, wherein the plant oils are at least one of soybean oil and canola oil.
4. The candle composition of claim 1, wherein the candle composition further comprises up to 5 percent by weight of fragrance.
5. The candle composition of claim 4, wherein the candle composition further comprises a UV absorber and an antioxidant.
6. A candle composition, the composition comprising:
60 to 99 percent by weight of a plant derived base component comprising a free fatty acid/triglyceride mixture; and

8660-0018

Express Mail No. EL592237826US

1 to 40 percent by weight of a plant derived crystal modifier.

7. The candle composition of claim 6, wherein the composition comprises 75 to 99 percent by weight of the plant derived base component and 1 to 25 percent by weight of the plant derived crystal modifier.
8. The candle composition of claim 7, wherein the plant derived base component comprises 1 to 99 percent by weight free fatty acids and 1 to 99 percent by weight triglycerides.
9. The candle composition of claim 7, wherein the plant derived base component comprises 30 to 100 percent by weight of triglycerides and 0 to 70 percent by weight free fatty acid.
10. The candle composition of claim 7, wherein the candle composition comprises 93.75 percent by weight of the plant derived base component and 6.25 percent by weight of the plant derived crystal modifier.
11. The candle composition of claim 10, wherein the plant derived crystal modifier is a plant derived surfactant.
12. The candle composition of claim 11, wherein the plant derived base component

8660-0018

Express Mail No. EL592237826US

comprises 62.50 percent by weight of a partially hydrogenated soybean oil; 25.00 percent by weight of stearic acid; and 6.25 percent by weight of a canola oil.

13. The candle composition of claim 7, wherein the candle composition comprises 75 percent by weight of the plant derived base component and 25 percent by weight of the crystal modifier.
14. The candle composition of claim 13, wherein the plant derived crystal modifier is a plant derived surfactant.
15. The candle composition of claim 14, wherein the plant derived base component comprises 62.50 percent by weight partially hydrogenated soybean oil and 12.50 percent by weight hydrogenated soybean oil.
16. The candle composition of claim 7, wherein the candle composition comprises 90 percent by weight of the plant derived base component and 10 percent by weight of the plant derived crystal modifier.
17. The candle composition of claim 16, wherein the plant derived crystal modifier is a plant derived surfactant.
18. The candle composition of claim 17, wherein the plant derived base component

8660-0018

Express Mail No. EL592237826US

comprises 61.5 percent by weight of a hydrogenated soybean oil and 28.5 percent by weight of a canola oil.

19. The candle composition of claim 6, wherein the free fatty acid/triglyceride mixture of the plant derived base component is comprised of free fatty acids and fatty acid components selected from the group consisting of lauric, myristic, palmitic, stearic, arachidic, behenic, palmitoleic, oleic, linoleic, linoleic and arachidonic acid.
20. The candle composition of claim 19, wherein the plant derived crystal modifier is a plant derived surfactant.
21. The candle composition of claim 6, wherein the candle composition comprises 5 to 40 percent by weight of the plant derived crystal modifier.
22. The candle composition of claim 21, wherein the candle composition comprises 7.5 to 20 percent by weight of the plant derived crystal modifier.
23. The candle composition of claim 22, wherein the candle composition comprises 10 percent by weight of the plant derived crystal modifier.
24. The candle composition of claim 23, wherein the candle composition comprises 65 percent by weight of fully hydrogenated plant triglycerides and 25 percent by weight

8660-0018

Express Mail No. EL592237826US

of partially hydrogenated plant triglycerides.

25. The candle composition of claim 6, wherein the plant derived crystal modifier is a surfactant.
26. The candle composition of claim 6, wherein the composition further includes a colorant.
27. The candle composition of claim 6, wherein the composition further includes an odorant.
28. The candle composition of claim 6, wherein the plant derived base component is comprised of a majority of soybean derived products.
29. The candle composition of claim 28, wherein the free fatty acid/triglyceride mixture of the plant derived base component is comprised of free fatty acids and fatty acid components selected from the group consisting of lauric, myristic, palmitic, stearic, arachidic, behenic, palmitoleic, oleic, linoleic, linoleic and arachidonic acid.
30. A candle composition, comprising at least 70 percent by weight of plant derived triglycerides, the plant derived triglycerides including 0 to 100 percent saturated fatty acid components and 0 to 100 percent unsaturated fatty acid components, the

unsaturated fatty acid components including 0 to 74 percent of monounsaturated fatty acids and 0 to 39 percent polyunsaturated fatty acids, the candle composition being solid at ambient temperatures up to 55 degrees Celsius.

31. The candle composition of claim 30, wherein the triglycerides include fatty acid components selected from the group consisting of lauric, myristic, palmitic, stearic, arachidic, behenic, palmitoleic, oleic, linoleic, linolenic, and arachidonic.
32. The candle composition of claim 31, wherein the fatty acid components of the triglycerides comprise between 0 and 39 percent of palmitic acid, between 0 and 74 percent of stearic acid, and between 0 and 73 percent oleic acid.
33. The candle composition of claim 30, wherein the composition comprises at least 80 percent by weight of plant derived triglycerides.
34. The candle composition of claim 33, wherein the triglycerides include fatty acid components selected from the group consisting of lauric, myristic, palmitic, stearic, arachidic, behenic, palmitoleic, oleic, linoleic, linolenic, and arachidonic.
35. The candle composition of claim 34, wherein the fatty acid components of the triglycerides comprise between 0 and 39 percent of palmitic acid, between 0 and 74 percent of stearic acid, and between 0 and 73 percent oleic acid.

36. The candle composition of claim 30, wherein the composition comprises at least 90 percent by weight of plant derived triglycerides.
37. The candle composition of claim 36, wherein the triglycerides include fatty acid components selected from the group consisting of lauric, myristic, palmitic, stearic, arachidic, behenic, palmitoleic, oleic, linoleic, linolenic, and arachidonic.
38. The candle composition of claim 37, wherein the fatty acid components of the triglycerides comprise between 0 and 39 percent of palmitic acid, between 0 and 74 percent of stearic acid, and between 0 and 73 percent oleic acid.
39. The candle composition of claim 30, wherein the composition comprises at least 95 percent by weight of plant derived triglycerides.
40. The candle composition of claim 39, wherein the triglycerides include fatty acid components selected from the group consisting of lauric, myristic, palmitic, stearic, arachidic, behenic, palmitoleic, oleic, linoleic, linolenic, and arachidonic.
41. The candle composition of claim 40, wherein the fatty acid components of the triglycerides comprise between 0 and 36 percent of palmitic acid, between 0 and 74 percent of stearic acid, and between 0 and 73 percent oleic acid.

8660-0018

Express Mail No. EL592237826US

42. The candle composition of claim 30, wherein the composition comprises at least 99 percent by weight of plant derived triglycerides.
43. The candle composition of claim 42, wherein the triglycerides include fatty acid components selected from the group consisting of lauric, myristic, palmitic, stearic, arachidic, behenic, palmitoleic, oleic, linoleic, linolenic, and arachidonic.
44. The candle composition of claim 43, wherein the fatty acid components of the triglycerides comprise between 0 and 36 percent of palmitic acid, between 0 and 74 percent of stearic acid, and between 0 and 73 percent oleic acid.